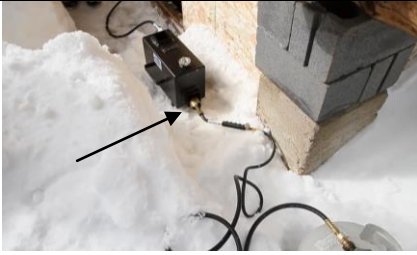


LOCATION	WRITTEN BY:	APPROVED BY:	DATE CREATED	LAST REVISION
All Buildings PTSD	Lorie Carriere Brent Vandenbosch	Brent Vandenbosch	April 22, 2014	New

PERSONAL PROTECTION EQUIPMENT (PPE)

 Safety glasses or face shield must be worn at all times in work areas.	 Long and loose hair must be tied back and covered
 Safety footwear must be worn at all times in the work area.	 Close fitting/protective clothing must be worn. Remove strings hanging from pullovers/sweaters.
 Work gloves with thermal protection must be worn.	

Photos

Photo 1	Photo 2	Primary Risk Area
		 Tiger Torch  End of Steam Hose

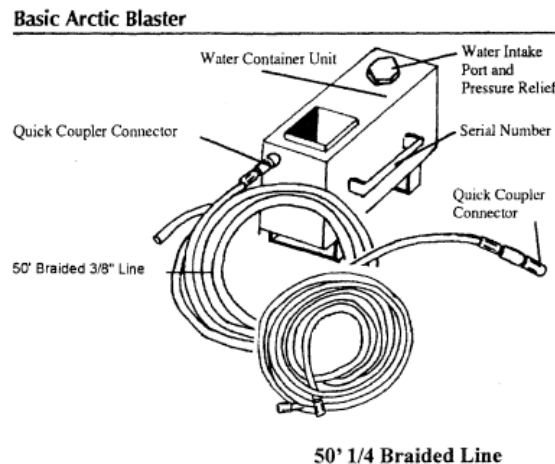
HAZARDS PRESENT	ADDITIONAL REQUIREMENTS
✓ Propane - flammable ✓ Burns – flames ✓ Scalds - steam ✓ Confined space entry hazards – propane tanks must remain outside of the area. ✓ Back injury – lifting heavy items	✓ Equipment orientation ✓ Never leave machine running unattended ✓ Hot work permit ✓ Use tools only for their intended purpose ✓ Read and understand general safety procedures in the user manual.

SAFE WORK PROCEDURE

PRE-OPERATIONAL SAFETY CHECKS:

1. Inspect required personal protective equipment and replace if required.
2. Ensure no slip/trip hazards are present in workspaces and walkways.
3. Faulty equipment must not be used. Immediately report suspect machinery.
4. Locate and ensure you are familiar with the operation of the equipment.
5. Do not install a valve of any kind in the hose
6. Do not modify the machine in any way.
7. Do not operate the arctic blaster within 5 feet of combustible material. Hot work permit is required.
8. Always warm the hose in its coil before hooking up to ensure the hose is thawed.
9. If steam escapes at the bypass spigot, reheat the hose to be sure it isn't frozen.
10. Ensure the unit is drained after use and allowed to cool down before storing.
11. **DO NOT** leave this equipment running while unattended.
12. Do not use equipment if it is damaged. Immediately report any damages to your supervisor.

OPERATION:



1. Inspect and don all personal protective equipment: safety glasses / face shield, safety footwear and gloves. If entering a crawl space or confined space a MGD is required. Remove all jewelry; loose clothing and tie back hair.
2. Locate the unit in a safe place away from fire hazards. Keep away from children.
3. Remove the water intake cap and fill with 8 liters of clean water. Use proper lifting techniques.
4. Connect the hose to the unit using the quick coupler at the end of the hose.
5. Using a 25 lb. propane tank without a regulator and with a tiger torch attached, turn on the propane and light the torch. Place the torch in the fire tube at the bottom end of the unit. Note: the more vigorous the flame the quicker the steam will start.
6. When the hose starts to steam, insert the hose into the pipe to be thawed. As the water melts, push the hose further into the pipe until the blockage has been cleared.

Note: a full tank of water will make steam for approximately 15 minutes. Time the process: look at your watch when the steam starts and when the 15 minutes passes, shut down the torch. Let the unit cool then refill and start again. The hose and the rad cap will become damaged if the tank runs dry.

If an emergency situation occurs while conducting this task or there is an equipment malfunction, evacuate the area and notify your supervisor.

REPORT ANY HAZARDOUS SITUATION TO YOUR SUPERVISOR IMMEDIATELY.

REGULATORY REQUIREMENTS

- WS&H Act W210, Section 4, 5, 7, 7.1
- Mb. Regulations 217/2006,
 - Part 15, Confined Spaces, Sections: 15.1 – 15.14
 - Part 16, Machines, Tools & Robots, Sections: 16.1 – 16.13
- Guideline for Confined Space Entry
- Operators Manual for the Arctic Blaster Thawing Machine.